

What is claimed is:

1. A method for detecting a state of a disc drive, comprising:  
inputting a cable select signal; and  
gating the cable select signal to determine the state of the disc drive when a  
5 jumper is set to indicate that the disc drive is in a cable select state or when the  
jumper is missing.

2. The method of claim 1, wherein the jumper that is not missing is set to  
indicate that the disc drive is in a master state, a slave state, or the cable select  
10 state.

3. The method of claim 2, further comprising:  
preventing the cable select signal from determining the state of the disc drive  
when the jumper is set to indicate that the disc drive is in the master state or the  
15 slave state.

4. The method of claim 3, wherein the step of preventing includes:  
turning off at least one buffer for uncoupling the cable select signal from an  
output that indicates the state of the disc drive.

5. The method of claim 3, further comprising:  
outputting a first logic level for indicating that the disc drive is in the master  
state when the jumper is set to indicate that the disc drive is in the master state; and  
outputting a second logic level for indicating that the disc drive is in the slave  
25 state when the jumper is set to indicate that the disc drive is in the slave state.

6. The method of claim 5, further comprising:  
turning on a first buffer that outputs the first logic level when the jumper is set  
to indicate that the disc drive is in the master state; and  
30 turning on a second buffer for causing a logic mismatching gate to output the  
second logic level when the jumper is set to indicate that the disc drive is in the slave  
state.

7. The method of claim 1, wherein the step of gating includes:

turning on at least one buffer that couples the cable select signal to a logic mismatching gate having an output that indicates the state of the disc drive.

5           8. A system for detecting a state of a disc drive, comprising:  
an input node for inputting a cable select signal; and  
at least one gate for gating the cable select signal to determine the state of the disc drive when a jumper is set to indicate that the disc drive is in a cable select state or when the jumper is missing.

10           9. The system of claim 8, wherein the jumper that is not missing is set to indicate that the disc drive is in a master state, a slave state, or the cable select state.

15           10. The system of claim 9, wherein the at least one gate prevents the cable select signal from determining the state of the disc drive when the jumper is set to indicate that the disc drive is in the master state or the slave state.

20           11. The system of claim 10, wherein the at least one gate includes:  
at least one buffer that is turned off for uncoupling the cable select signal from an output that indicates the state of the disc drive, when the jumper is set to indicate that the disc drive is in the master state or the slave state.

25           12. The system of claim 10, further comprising:  
a master detection circuit that outputs a first logic level for indicating that the disc drive is in the master state when the jumper is set to indicate that the disc drive is in the master state; and  
a slave detection circuit that outputs a second logic level for indicating that the disc drive is in the slave state when the jumper is set to indicate that the disc drive is in the slave state.

30           13. The system of claim 12, further comprising:  
a first buffer that is turned on within the master detection circuit for outputting the first logic level when the jumper is set to indicate that the disc drive is in the master state; and

a second buffer that is turned on within the slave detection circuit for causing a logic mismatching gate to output the second logic level when the jumper is set to indicate that the disc drive is in the slave state.

5           14. The system of claim 8, further comprising:

a cable select detection circuit having at least one buffer that is turned on to couple the cable select signal to a logic mismatching gate having an output that indicates the state of the disc drive, when the jumper is set to indicate that the disc drive is in the cable select state or when the jumper is missing.

10

15. A system for detecting a state of a disc drive, comprising:

an input node for inputting a cable select signal; and

means for allowing the cable select signal to determine the state of the disc drive when a jumper is set to indicate that the disc drive is in a cable select state or when the jumper is missing.

15

16. The system of claim 15, wherein the jumper that is not missing is set to indicate that the disc drive is in a master state, a slave state, or the cable select state.

20

17. The system of claim 15, further comprising:

means for preventing the cable select signal from determining the state of the disc drive when the jumper is set to indicate that the disc drive is in the master state or the slave state.

25

18. The system of claim 17, further comprising:

means for outputting a first logic level for indicating that the disc drive is in the master state when the jumper is set to indicate that the disc drive is in the master state; and

30

means for outputting a second logic level for indicating that the disc drive is in the slave state when the jumper is set to indicate that the disc drive is in the slave state.